Assoc. Prof. DENİZ CANBULA

Personal Information

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International Researcher IDs
ScholarID: rmaglqQAAAAJ
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Publons / Web Of Science ResearcherID: GPG-0453-2022
ScopusID: 56429646400
Yoksis Researcher ID: 293825

Education

Doctorate, Manisa Celal Bayar University, Turkey 2012 - 2018
Postgraduate, Manisa Celal Bayar University, Fen Bilimleri Enstitüsü, Turkey 2009 - 2012
Undergraduate, Manisa Celal Bayar University, Turkey 2004 - 2008

Foreign Languages

English

Dissertations

Doctorate, Bazı lityum izotoplarının saçılma tesir kesitlerinin çiftlenmiş kanallar metoduyla hesaplanması, Manisa Celal Bayar University, 2018
Postgraduate, Tüm çekirdek bölgesi için seviye yoğunluğu parametrelerinin yarı-klasik yaklaşımlar yardımıyla incelenmesi, 2012

Research Areas

Avesis Research Areas: Physics
WoS Research Areas: Natural Sciences (Sci)
Scopus Research Areas: Nuclear Energy and Engineering

Academic Positions

Associate Professor, Manisa Celal Bayar University, MANİSA TEKNİK BİLİMLER MESLEK YÜKSEKOKULU, ELEKTRİK VE ENERJİ, 2020 - Present

Academic and Administrative Experience

Manisa Celal Bayar University, 2021 - Present

Courses

Undergraduate

Diferansiyel Denklemler, Undergraduate, 2022-2023, 2021-2022, 2020-2021
İstatistik, Undergraduate, 2021-2022
Fizik 2, Undergraduate, 2021-2022, 2020-2021
Sağlık Fiziğine Giriş, Undergraduate, 2020-2021

Associate Degree

Enerji Depolama - Alternatif Enerji Kaynakları Teknolojisi, Associate Degree, 2025 - 2026
Güneş Enerjisi ve Uygulamaları - Alternatif Enerji Kaynakları Teknolojisi, Associate Degree, 2025 - 2026
Temel Enerji Kaynakları - Alternatif Enerji Kaynakları Teknolojisi, Associate Degree, 2025 - 2026
Sosyal Sorumluluk - Alternatif Enerji Kaynakları Teknolojisi, Associate Degree, 2024 - 2025
Mesleki Matematik - Alternatif Enerji Kaynakları Teknolojisi, Associate Degree, 2025 - 2026
Fizik - Alternatif Enerji Kaynakları Teknolojisi, Associate Degree, 2025 - 2026
Gelişen Teknoloji - Alternatif Enerji Kaynakları Teknolojisi, Associate Degree, 2024 - 2025
Matematik 2 1. Öğretim, Associate Degree, 2022-2023
Fizik - EKT, Associate Degree, 2022-2023, 2021-2022
Matematik 2 2. Öğretim, Associate Degree, 2022-2023
Mesleki Matematik, Associate Degree, 2022-2023, 2021-2022
Fizik - MRK, Associate Degree, 2022-2023, 2021-2022
İşletmede Mesleki Eğitim, Associate Degree, 2022-2023, 2021-2022
Araştırma Yöntem ve Teknikleri 1. Öğretim, Associate Degree, 2021-2022
İletişim ve Etik 2. Öğretim, Associate Degree, 2021-2022
İletişim ve Etik 1. Öğretim, Associate Degree, 2021-2022
Araştırma Yöntem ve Teknikleri 2. Öğretim, Associate Degree, 2021-2022
Araştırma Yöntem ve Teknikleri - Makine 1. Öğretim, Associate Degree, 2020-2021
Araştırma Yöntem ve Teknikleri - İnşaat Teknolojisi 2. Öğretim, Associate Degree, 2020-2021
İş Yeri Uygulama Eğitimi - MRK, Associate Degree, 2020-2021
Araştırma Yöntem ve Teknikleri - Makine 2. Öğretim, Associate Degree, 2020-2021
Araştırma Yöntem ve Teknikleri - İnşaat Teknolojisi 1. Öğretim, Associate Degree, 2020-2021
Sosyal Sorumluluk, Associate Degree, 2020-2021
Fizik, Associate Degree, 2020-2021
İş Yeri Uygulama Eğitimi - İnşaat Teknolojisi, Associate Degree, 2020-2021
Fizik 1. Öğretim / 2. Öğretim, Associate Degree, 2019-2020

Articles

I. **Level density sensitivity in deuteron-induced production of medically relevant Cu and Ga radionuclides from Ni and Zn targets**
CANBULA D., CANBULA B.
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.581, 2026 (SCI-Expanded, Scopus)

II. **Impact of collective nuclear motion on cross section predictions for representative nuclear reactions**
CANBULA D., CANBULA B.
Applied Radiation and Isotopes, vol.237, 2026 (SCI-Expanded, Scopus)

III. **Cross section calculations of deuteron induced reactions on therapeutic radionuclides using optical**

model potentials
CANBULA D., CANBULA B.
Indian Journal of Physics, vol.100, no.8, pp.3381-3391, 2026 (SCI-Expanded, Scopus)

IV. **Comparison Of The Effects Of Nuclear Level Density and Gamma Ray Strength Function Models On Gamma Induced Reactions Of 59Co Isotope**
Canbula D., Canbula B.
Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, vol.25, no.3, pp.455-461, 2025 (TRDizin)

V. **The combination effect of optical potential and nuclear level density for alpha induced reaction cross sections on 92,94,95Mo isotopes**
CANBULA D., CANBULA B.
Applied Radiation and Isotopes, vol.211, 2024 (SCI-Expanded, Scopus)

VI. **Probing 6He induced reactions with nuclear level density**
CANBULA D., CANBULA B., BABACAN H.
Kerntechnik, vol.88, no.6, pp.725-736, 2023 (SCI-Expanded, Scopus)

VII. **Investigation of charged-particle induced reactions on 27Al up to 100 MeV leading to the formation of 22Na and 24Na**
CANBULA D., CANBULA B.
Radiochimica Acta, vol.111, no.6, pp.415-423, 2023 (SCI-Expanded, Scopus)

VIII. **Cross-Section Calculations for the Production of 123I and 124I Radioisotopes via (p,n) and (p,2n) Reactions Using Collective Nuclear Level Density Model**
CANBULA D., CANBULA B.
Nuclear Technology, vol.209, no.6, pp.895-901, 2023 (SCI-Expanded, Scopus)

IX. **A STUDY OF PHOTONEUTRON REACTIONS USING STATISTICAL ANALYSIS†**
CANBULA D., CANBULA B.
East European Journal of Physics, vol.2022, no.4, pp.99-103, 2022 (Scopus)

X. **CROSS-SECTION CALCULATIONS OF PHOTOFISSION REACTIONS FOR 238,239,240,241,242,244Pu ISOTOPES USING NUCLEAR LEVEL DENSITY**
CANBULA D., CANBULA B.
Nuclear Physics and Atomic Energy, vol.23, no.1, pp.5-11, 2022 (ESCI, Scopus)

XI. **Cross section analysis of proton-induced nuclear reactions of thorium**
CANBULA D.
Nuclear Instruments and Methods in Physics Research, Section B: Beam Interactions with Materials and Atoms, vol.478, pp.229-232, 2020 (SCI-Expanded, Scopus)

XII. **Analysis of elastic, quasielastic, and inelastic scattering of lithium isotopes on a Si 28 target**
CANBULA B., CANBULA D., BABACAN H.
Physical Review C - Nuclear Physics, vol.91, no.4, 2015 (SCI-Expanded, Scopus)

XIII. **An investigation of the role of spectroscopic factors in the breakup reaction of 11Be**
CANBULA B., Bulur R., CANBULA D., BABACAN H.
Nuclear Science and Techniques, vol.26, no.2, 2015 (SCI-Expanded, Scopus)

XIV. **A Laplace-like formula for the energy dependence of the nuclear level density parameter**
CANBULA B., Bulur R., CANBULA D., BABACAN H.
Nuclear Physics A, vol.929, pp.54-70, 2014 (SCI-Expanded, Scopus)

XV. **Effects of single-particle potentials on the level density parameter**
CANBULA B., Bulur R., CANBULA D., BABACAN H.
European Physical Journal A, vol.50, no.11, 2014 (SCI-Expanded, Scopus)

Papers Presented at Peer-Reviewed Scientific Conferences

I. **Farklı Teorik Modeller Yardımıyla Nükleer Reaksiyonların Tesir Kesiti Analizi**
CANBULA D., CANBULA B.

3rd International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 15 - 18 March 2023, vol.1, pp.510-511, (Summary Text)

II. **Calculation Of Neutron Capture Cross Section**
CANBULA D., CANBULA B.
2th International Aegean Scientific Research Symposium 2022, Turkey, 12 - 13 March 2022, vol.1, pp.49-50, (Summary Text)

III. **Investigation of Photoneutron Reactions of Se Isotopes with Statistical Analysis Method**
CANBULA D., CANBULA B.
International Current Research Symposium 2022, Turkey, 21 - 22 February 2022, vol.1, pp.20-21, (Summary Text)

IV. **Medikal Alanda Kullanılan Radyoizotopların Proton Yakalama Reaksiyonlarının İncelenmesi**
CANBULA D.
International Online Conferences on Engineering and Natural Sciences, Gümüşhane, Turkey, 5 - 07 July 2021, vol.1, pp.291, (Summary Text)

V. **Gama Işınım Şiddet Fonksiyonlarının (g,n) Reaksiyonlarının Tesir Kesitleri Üzerindeki Rolü**
CANBULA D., CANBULA B.
Global Conference on Engineering Research, Balıkesir, Turkey, 2 - 05 June 2021, vol.1, pp.718-719, (Summary Text)

VI. **Nükleer Seviye Yoğunluğunun Fotonükleer Reaksiyonlardaki Rolü**
CANBULA B., CANBULA D.
International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 22 - 25 February 2021, vol.1, pp.289-290, (Summary Text)

VII. **Samaryum İzotopunun Fotonötron Reaksiyon Tesir Kesiti Hesabı**
CANBULA D.
International Symposium of Scientific Research and Innovative Studies, Balıkesir, Turkey, 22 - 25 February 2021, vol.1, pp.315-316, (Summary Text)

VIII. **The role of the spin-orbit interaction in elastic scattering of weakly bound lithium isotope**
CANBULA D., CANBULA B., BABACAN H.
NUFRA 2015: The Fifth International Conference on Nuclear Fragmentation, KEMER/ANTALYA, Turkey, 4 - 11 October 2015, (Summary Text)

IX. **Calculation of the asymptotic level density parameter with different single particle potentials**
CANBULA D., CANBULA B., BABACAN H.
VIII. International Workshop on Nuclear Structure Properties, Sakarya, Turkey, 7 - 10 September 2015, (Summary Text)

X. **Nuclear Level Density: An Essential Tool for Nuclear Structure and Reactions**
CANBULA B., CANBULA D., BABACAN H.
Fifth International Conference on Nuclear Fragmentation From Basic Research to Applications, Antalya, Turkey, 4 - 11 October 2015, vol.1, pp.37, (Summary Text)

XI. **The role of the spin-orbit interaction in elastic scattering of weakly bound Lithium isotopes**
CANBULA D., CANBULA B., BABACAN H.
Fifth International Conference on Nuclear Fragmentation From Basic Research to Applications, Antalya, Turkey, 4 - 11 October 2015, vol.1, pp.54, (Summary Text)

XII. **Calculation of the asymtotic level density parameter with different single particle potentials**
CANBULA D., CANBULA B., BABACAN H.
8th International Workshop on Nuclear Structure Properties, Sakarya, Turkey, 7 - 10 September 2015, vol.1, pp.47, (Summary Text)

XIII. **The Role of the Renormalization Coefficients in Photonuclear Reactions**
CANBULA B., CANBULA D., BABACAN H.
8th International Workshop on Nuclear Structure Properties, Sakarya, Turkey, 7 - 10 September 2015, vol.1, pp.46, (Summary Text)

XIV. **IAn investigation of the role of spectroscopic factors in the breakup reaction of 11 Be**
CANBULA B., BULUR R., CANBULA D., BABACAN H.

WND-2014: The 4th International Workshop on Nuclear Dynamics in Heavy-Ion Reactions, Lanzhou, China, 15 - 19 August 2014, (Full Text)

XV. **Extracted Collective Enhancement Factors of the Nuclear Level Density**
CANBULA B., Bulur R., CANBULA D., BABACAN H.
VII. International Workshop on Nuclear Structure Properties, Sinop, Turkey, 27 - 29 October 2014, pp.26, (Summary Text)

XVI. **An investigation of the role of spectroscopic factors in the break up reaction of 11Be**
CANBULA B., Bulur R., CANBULA D., BABACAN H.
The 4th International Workshop on Nuclear Dynamics in Heavy Ion Reactions, Lanzhou, China, 15 - 19 August 2014, (Summary Text)

XVII. **Hafif Egzotik Çekirdekler için Seviye Yoğunluğu Parametresinin İncelenmesi**
CANBULA B., Bulur R., CANBULA D., BABACAN H.
İzmir Yüksek Enerji Fiziği ve Uygulamaları Çalıştayı, İzmir, Turkey, 19 - 23 June 2012, vol.1, pp.55, (Summary Text)

XVIII. **Hafif egzotik çekirdekler için seviye yoğunluğu parametresinin incelenmesi**
CANBULA B., BULUR R., CANBULA D., BABACAN H.
İzmir Yüksek Enerji Fiziği ve Uygulamaları Çalıştayı, İzmir, Turkey, 19 - 23 June 2012, vol.1, pp.55, (Summary Text)

XIX. **Kollektif Nükleer Seviye Yoğunluğu Parametresi**
CANBULA D., Bulur R., CANBULA B., BABACAN H.
GEFİK-2012 İzmir Genç Fizikçiler Kongresi, İzmir, Turkey, 13 - 15 June 2012, vol.1, pp.39, (Summary Text)

Funded Projects

CANBULA D., FİAT VAROL S., ŞAHİNOĞLU A., ŞAHİN C. A., TEKE O., KANAT Y., Project Supported by Higher Education Institutions, Güneş-Hidrojen Hibrit Enerji Sistemlerinin Verimlilik Analizleri ve Mikro Rüzgar Türbinlerinin Farklı Yükler Altında Çalıştırarak Oluşan Hız, Titreşim ve Ses Analizlerinin Yapılması, 2020 - 2021

CANBULA B., Çekirdeklerin Uyarılmış Seviyelerinin Bozunma Genişlikleri ve Ortalama Yaşam Sürelerinin Hesaplanması, 2016 - 2018

CANBULA B., BABACAN H., Nükleer Seviye Yoğunluğu Parametresinin Spin ve Parite Bağımlılığının İncelenmesi, 2015 - 2016

BABACAN H., Seviye Yoğunluğu Parametrelerinin Nükleer Yapı ve Reaksiyon Gözlenebilirleriyle Uyumlu Olarak Elde Edilmesi, 2012 - 2014

Metrics

Publication: 34
Citation (WoS): 63
Citation (Scopus): 75
H-Index (WoS): 4
H-Index (Scopus): 5